alkoxycarbonylamino, (C_1-C_6)-alkoxy, carboxyl, (C_1-C_8)-alkoxycarbonyl, straight-chain or branched (C_1-C_6)-alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched (C_1-C_8)-alkoxy, where adjacent oxygen atoms can also be linked by (C_1-C_2)-alkylene groups, benzyloxy, nitro, amino, mono-(C_1-C_4)-alkylamino, di-(C_1-C_4)-alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched (C_1-C_8)-alkyl, (C_3-C_7)-cycloalkyl, carboxyl, straight-chain or branched (C_1-C_8)-alkoxycarbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched (C_1-C_8)-alkoxy, benzyloxy, nitro, amino, mono-(C_1-C_4)-alkylamino, di-(C_1-C_4)-alkylamino, cyano, straight-chain or branched cyano-(C_1-C_6)-alkyl;

and their structural isomers and stereoisomers, and their pharmaceutically acceptable salts.--

Delete claim 12.

REMARKS

Claims 1-11 and 13-14 are in the application.

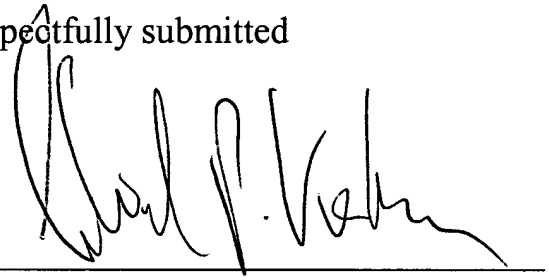
Claim 1 was amended to correct a number of informalities. Claim 12 to the therapeutic process was deleted. A claim comparison page is attached.

It is respectfully submitted that the compound of Example 11 of Sugihara et al. is a 3,4,5-trimethoxybenzyl compound, and such a substitition is not possible for R_4 of the present invention which is a "straight-chain or branched (C_1-C_{20})-alkyl

radical which can be saturated or unsaturated, with one to three double and/or triple bonds."

In view of the foregoing, a reconsideration of the outstanding rejections, and the allowance of claims 1-11 and 13-14 are respectfully urged.

Respectfully submitted



Gabriel P. Katona, their attorney

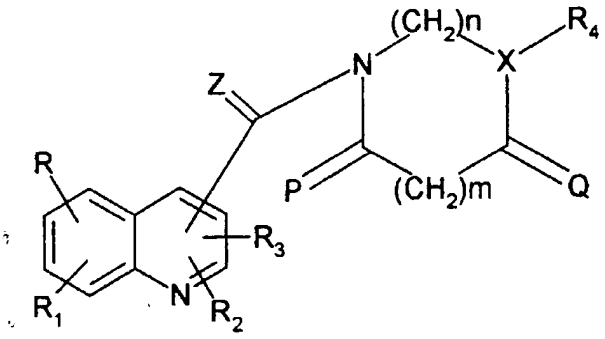
Customer No. address 23622

It is hereby certified that this is being mailed on December 16, 2002.

Francene Sawyer

Claim comparison page

Quinoline derivatives according to the formula 1



formula 1

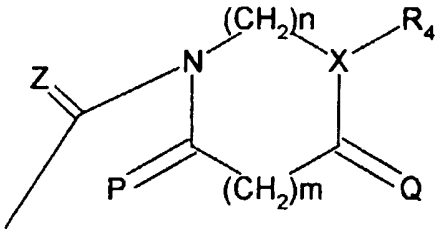
in which

R, R_1, R_2, R_3 can [**may**] be attached to any of the quinoline carbon atoms C_2 to C_8, are identical or different and independently of one another denote hydrogen, straight-chain or branched (C_1-C_8)-alkyl, (C_3-C_7)-cycloalkyl, straight-chain or branched (C_1-C_8)-alkylcarbonyl,**[preferably acetyl,]** straight-chain or branched (C_1-C_8)-alkoxy, halogen, aryl-(C_1-C_8)-alkoxy,**[preferably benzyloxy or phenylethyloxy]** nitro, amino, mono-(C_1-C_4)-alkylamino, di-(C_1-C_4)-alkylamino, (C_1-C_8)-alkoxycarbonylamino, (C_1-C_6)-alkoxycarbonylamino-(C_1-C_8)-alkyl, cyano, straight-chain or branched cyano-(C_1-C_6)-alkyl, carboxyl, (C_1-C_8)-alkoxycarbonyl, (C_1-C_4)-alkyl which is substituted by one or more fluorine atoms, **[preferably the trifluoromethyl group,]** carboxy-(C_1-C_8)-alkyl or (C_1-C_8)-alkoxycarbonyl-(C_1-C_6)-alkyl, (C_2-C_6)-alkenyl, **[preferably allyl,]** (C_2-C_6)-alkynyl,**[preferably ethynyl or propargyl]** straight-chain or branched cyano-(C_1-C_6)-alkyl, **[preferably cyanomethyl]** aryl, where the aryl radical can [**may**] be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of halogen, straight-chain or branched (C_1-C_8)-alkyl, (C_3-C_7)-cycloalkyl, carboxyl, straight-chain or branched (C_1-C_8)-alkoxycarbonyl,**[preferably tert-**

butoxycarbonyl,] by trifluoromethyl, hydroxyl, straight-chain or branched (C_1-C_8)-alkoxy, [**preferably methoxy or ethoxy,**] benzyloxy, nitro, amino, mono-(C_1-C_4)-alkylamino, di-(C_1-C_4)-alkylamino, cyano, straight-chain or branched cyano-(C_1-C_6)-alkyl, where additionally R and R_1 or R_2 and R_3 can [**may**] form a fused aromatic 6-membered ring with the quinoline ring forming an acridine ring which for its part can [**may**] be substituted at any C atom ring position by the radicals R, R_1, R_2 and R_3 having the meanings mentioned above;

P and Q are each 2 hydrogen atoms,

Z is oxygen or sulfur, where the radical



substituted on the quinoline heterocycle can [**may**] be attached to C atoms C_2-C_8 of the quinoline ring skeleton;

X is nitrogen or C-R_5, where R_5 represents hydrogen or (C_1-C_6)-alkyl;

n,m independently of one another denotes an integer between 0-3, with the proviso that in the case n = 0, X denotes a CR_5R_6 group where R_5 and R_6 independently of one another represent hydrogen or (C_1-C_6)-alkyl and that the nitrogen atom adjacent to the C=Z group is substituted by a hydrogen atom or a (C-C_6)-alkyl group;

R_4 is a straight-chain or branched (C_1-C_{20})-alkyl radical which can [**may**] be saturated or unsaturated, with one to three double and/or triple bonds, and which can [**may**] be unsubstituted or can [**may**] optionally be substituted at the same or different C atoms by one, two or more aryl, heteroaryl, halogen, cyano, (C_1-C_6)-alkoxycarbonylamino, (C_1-C_6)-alkoxy, amino, mono-(C_1-C_4)-alkylamino or di-(C_1-C_4)-alkylamino; a (C_6-C_{14})-aryl radical, (C_6-C_{14})-aryl-(C_1-C_4)-alkyl radical or a (C_2-C_{10})-heteroaryl or (C_2-C_{10})-heteroaryl-(C_1-C_4)-alkyl radical which contains one or more heteroatoms selected from the group consisting of N, O and S, where the (C_1-C_4)-alkyl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of (C_1-C_6)-alkyl, halogen and oxo (=O) and where the (C_6-C_{14})-aryl or (C_2-C_{10})-heteroaryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched

(C_1-C_8)-alkyl, (C_3-C_7)-cycloalkyl, halogen, cyano, (C_1-C_6)-alkoxycarbonylamino, (C_1-C_6)-alkoxy, carboxyl, (C_1-C_8)-alkoxycarbonyl, straight-chain or branched (C_1-C_6)-alkyl which is substituted by one or more fluorine atoms, [**preferably trifluoromethyl,**] hydroxyl, straight-chain or branched (C_1-C_8)-alkoxy,[**preferably methoxy or ethoxy,**] where adjacent oxygen atoms can [**may**] also be linked by (C_1-C_2)-alkylene groups, [**preferably by a methylene group**] benzyloxy, nitro, amino, mono-(C_1-C_4)-alkylamino, di-(C_1-C_4)-alkylamino, aryl, which [**for its part**] can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched (C_1-C_8)-alkyl, (C_3-C_7)-cycloalkyl, carboxyl, straight-chain or branched (C_1-C_8)-alkoxycarbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched (C_1-C_8)-alkoxy, [**preferably methoxy or ethoxy,**] benzyloxy, nitro, amino, mono-(C_1-C_4)-alkylamino, di-(C_1-C_4)-alkylamino, cyano, straight-chain or branched cyano-(C_1-C_6)-alkyl;

and their structural isomers and stereoisomers, [**in particular tautomers, diastereomers and enantiomers**] and their pharmaceutically acceptable salts[**in particular acid addition salts**].